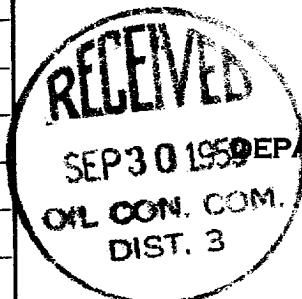
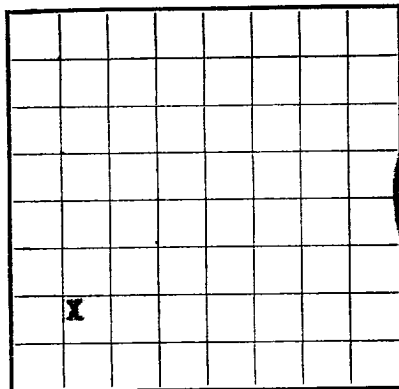


REVISED

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 22-07891,9
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED

SEP 30 1959

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Pan American Petroleum Corporation Address Box 487, Farmington, New Mexico
Lessor or Tract Gallegos Canyon Unit Field West Ruts Fruitland State New Mexico
Well No. 77 Sec. 18 T. 29N R. 13W Meridian N.M.P.M. County San Juan
Location 990 ft. N. of 3 Line and 1090 ft. E. of 4 Line of Section 18 Elevation 5533
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. M. Bauer, Jr. ORIGINAL SIGNED BYDate September 28, 1959Title Area Engineer

The summary on this page is for the condition of the well at above date.

Commenced recompletion June 18, 1959 Finished recompletion June 23, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1161 to 1195.6 No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

No. 1 from 1161 to 1195.6 No. 3 from 1161 to 1195.6
No. 2 from 1161 to 1195.6 No. 4 from 1161 to 1195.6
No. 5 from 1161 to 1195.6 No. 6 from 1161 to 1195.6

Size casing	Weight per foot	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used	Purpose
<u>8-5/8"</u>	<u>26.8</u>	<u>1500'</u>	<u>75 sacks cement</u>	<u>Halliburton</u>	<u>2</u>	<u>Plug</u>	<u>Plug</u>
<u>5-1/2"</u>	<u>1500'</u>	<u>75 sacks cement</u>	<u>Halliburton</u>	<u>2</u>	<u>Plug</u>	<u>Plug</u>	<u>Plug</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8"</u>	<u>26.8</u>	<u>150 sacks cement</u>	<u>Halliburton</u>	<u>2</u>	<u>Plug</u>
<u>5-1/2"</u>	<u>1500'</u>	<u>75 sacks cement</u>	<u>Halliburton</u>	<u>2</u>	<u>Plug</u>

Completed off Pictured Cliffs perforations 1135-1144 with 50 sacks of cement.

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

Well recompleted in Fruitland.

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Completed as shut in West
Ruts-Fruitland Field Well, 19____
June 23, 1959

DATES

Shut in for pipeline connection
Put to producing June 23, 1959

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____%
emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

If gas was produced per 24 hours 970 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 370 Shut-in casing pressure 7 days.

EMPLOYEES

_____, Driller J. D. McDowall, Driller
_____, Driller Kenneth Hill, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>260</u>	<u>260</u>	<u>Surface sand & shale.</u>
<u>260</u>	<u>1135</u>	<u>875</u>	<u>Kirtland sands & shales.</u>
<u>1135</u>	<u>1376</u>	<u>241</u>	<u>Fruitland sands, shales & coals.</u>

Potential Test: June 30, 1959:
Plugged 1695 MCF per day through
3/4-inch choke after 3 hours.
Absolute potential 1935 MCF per day.

FORMATION RECORD—CONTINUED

PLEASE OR PERMIT TO PROCEED
SERIAL NUMBER
U. S. LAND OFFICE

UNITED STATES

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

110 110 110
110 110 110

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

[illegible]

Completed drilling _____
 The summary on this page is for the condition of the well at above date _____
 This _____

(Delete gas by G)

OIL OR GAS SANDS OR ZONES

No. 1 from 1000 to 1001
 No. 2 from 1002 to 1003
 No. 3 from 1004 to 1005
 No. 4 from 1006 to 1007
 No. 5 from 1008 to 1009
 No. 6 from 1010 to 1011
 No. 7 from 1012 to 1013
 No. 8 from 1014 to 1015
 No. 9 from 1016 to 1017
 No. 10 from 1018 to 1019
 No. 11 from 1020 to 1021
 No. 12 from 1022 to 1023
 No. 13 from 1024 to 1025
 No. 14 from 1026 to 1027
 No. 15 from 1028 to 1029
 No. 16 from 1030 to 1031
 No. 17 from 1032 to 1033
 No. 18 from 1034 to 1035
 No. 19 from 1036 to 1037
 No. 20 from 1038 to 1039
 No. 21 from 1040 to 1041
 No. 22 from 1042 to 1043
 No. 23 from 1044 to 1045
 No. 24 from 1046 to 1047
 No. 25 from 1048 to 1049
 No. 26 from 1050 to 1051
 No. 27 from 1052 to 1053
 No. 28 from 1054 to 1055
 No. 29 from 1056 to 1057
 No. 30 from 1058 to 1059
 No. 31 from 1060 to 1061
 No. 32 from 1062 to 1063
 No. 33 from 1064 to 1065
 No. 34 from 1066 to 1067
 No. 35 from 1068 to 1069
 No. 36 from 1070 to 1071
 No. 37 from 1072 to 1073
 No. 38 from 1074 to 1075
 No. 39 from 1076 to 1077
 No. 40 from 1078 to 1079
 No. 41 from 1080 to 1081
 No. 42 from 1082 to 1083
 No. 43 from 1084 to 1085
 No. 44 from 1086 to 1087
 No. 45 from 1088 to 1089
 No. 46 from 1090 to 1091
 No. 47 from 1092 to 1093
 No. 48 from 1094 to 1095
 No. 49 from 1096 to 1097
 No. 50 from 1098 to 1099
 No. 51 from 1100 to 1101
 No. 52 from 1102 to 1103
 No. 53 from 1104 to 1105
 No. 54 from 1106 to 1107
 No. 55 from 1108 to 1109
 No. 56 from 1110 to 1111
 No. 57 from 1112 to 1113
 No. 58 from 1114 to 1115
 No. 59 from 1116 to 1117
 No. 60 from 1118 to 1119
 No. 61 from 1120 to 1121
 No. 62 from 1122 to 1123
 No. 63 from 1124 to 1125
 No. 64 from 1126 to 1127
 No. 65 from 1128 to 1129
 No. 66 from 1130 to 1131
 No. 67 from 1132 to 1133
 No. 68 from 1134 to 1135
 No. 69 from 1136 to 1137
 No. 70 from 1138 to 1139
 No. 71 from 1140 to 1141
 No. 72 from 1142 to 1143
 No. 73 from 1144 to 1145
 No. 74 from 1146 to 1147
 No. 75 from 1148 to 1149
 No. 76 from 1150 to 1151
 No. 77 from 1152 to 1153
 No. 78 from 1154 to 1155
 No. 79 from 1156 to 1157
 No. 80 from 1158 to 1159
 No. 81 from 1160 to 1161
 No. 82 from 1162 to 1163
 No. 83 from 1164 to 1165
 No. 84 from 1166 to 1167
 No. 85 from 1168 to 1169
 No. 86 from 1170 to 1171
 No. 87 from 1172 to 1173
 No. 88 from 1174 to 1175
 No. 89 from 1176 to 1177
 No. 90 from 1178 to 1179
 No. 91 from 1180 to 1181
 No. 92 from 1182 to 1183
 No. 93 from 1184 to 1185
 No. 94 from 1186 to 1187
 No. 95 from 1188 to 1189
 No. 96 from 1190 to 1191
 No. 97 from 1192 to 1193
 No. 98 from 1194 to 1195
 No. 99 from 1196 to 1197
 No. 100 from 1198 to 1199
 No. 101 from 1200 to 1201
 No. 102 from 1202 to 1203
 No. 103 from 1204 to 1205
 No. 104 from 1206 to 1207
 No. 105 from 1208 to 1209
 No. 106 from 1210 to 1211
 No. 107 from 1212 to 1213
 No. 108 from 1214 to 1215
 No. 109 from 1216 to 1217
 No. 110 from 1218 to 1219
 No. 111 from 1220 to 1221
 No. 112 from 1222 to 1223
 No. 113 from 1224 to 1225
 No. 114 from 1226 to 1227
 No. 115 from 1228 to 1229
 No. 116 from 1230 to 1231
 No. 117 from 1232 to 1233
 No. 118 from 1234 to 1235
 No. 119 from 1236 to 1237
 No. 120 from 1238 to 1239
 No. 121 from 1240 to 1241
 No. 122 from 1242 to 1243
 No. 123 from 1244 to 1245
 No. 124 from 1246 to 1247
 No. 125 from 1248 to 1249
 No. 126 from 1250 to 1251
 No. 127 from 1252 to 1253
 No. 128 from 1254 to 1255
 No. 129 from 1256 to 1257
 No. 130 from 1258 to 1259
 No. 131 from 1260 to 1261
 No. 132 from 1262 to 1263
 No. 133 from 1264 to 1265
 No. 134 from 1266 to 1267
 No. 135 from 1268 to 1269
 No. 136 from 1270 to 1271
 No. 137 from 1272 to 1273
 No. 138 from 1274 to 1275
 No. 139 from 1276 to 1277
 No. 140 from 1278 to 1279
 No. 141 from 1280 to 1281
 No. 142 from 1282 to 1283
 No. 143 from 1284 to 1285
 No. 144 from 1286 to 1287
 No. 145 from 1288 to 1289
 No. 146 from 1290 to 1291
 No. 147 from 1292 to 1293
 No. 148 from 1294 to 1295
 No. 149 from 1296 to 1297
 No. 150 from 1298 to 1299
 No. 151 from 1300 to 1301
 No. 152 from 1302 to 1303
 No. 153 from 1304 to 1305
 No. 154 from 1306 to 1307
 No. 155 from 1308 to 1309
 No. 156 from 1310 to 1311
 No. 157 from 1312 to 1313
 No. 158 from 1314 to 1315
 No. 159 from 1316 to 1317
 No. 160 from 1318 to 1319
 No. 161 from 1320 to 1321
 No. 162 from 1322 to 1323
 No. 163 from 1324 to 1325
 No. 164 from 1326 to 1327
 No. 165 from 1328 to 1329
 No. 166 from 1330 to 1331
 No. 167 from 1332 to 1333
 No. 168 from 1334 to 1335
 No. 169 from 1336 to 1337
 No. 170 from 1338 to 1339
 No. 171 from 1340 to 1341
 No. 172 from 1342 to 1343
 No. 173 from 1344 to 1345
 No. 174 from 1346 to 1347
 No. 175 from 1348 to 1349
 No. 176 from 1350 to 1351
 No. 177 from 1352 to 1353
 No. 178 from 1354 to 1355
 No. 179 from 1356 to 1357
 No. 180 from 1358 to 1359
 No. 181 from 1360 to 1361
 No. 182 from 1362 to 1363
 No. 183 from 1364 to 1365
 No. 184 from 1366 to 1367
 No. 185 from 1368 to 1369
 No. 186 from 1370 to 1371
 No. 187 from 1372 to 1373
 No. 188 from 1374 to 1375
 No. 189 from 1376 to 1377
 No. 190 from 1378 to 1379
 No. 191 from 1380 to 1381

On May 1968, excavated off colored strata produced 11-30 mm with 50 marks counted measured with 1200 psi. Top of cement plug at 15 ft. Not logs and oriented intervals 1161-1199 mm were per foot followed by sand-water slits with 21,000 gallons water mixed with 10,000 pounds sand. Average input rate 27 barrels per minute and maximum circulating pressure of 3.50 psi. After standing out mud from 1182-1278, well tested 970 MCFD for 7 hours plot tube measurement. 1-1/4" tubing size was completed June 23, 1969, as a test hole - Killard gas well and shut-in waiting on pipeline connection.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "overcased" or left in the well, give size and condition. If the well has been dynamited, give date, size, position, and amount of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing or snags.

HISTORY OF OIL OR GAS WELL

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

DATE	WATER USED	NUMBER OF BAGS OF CEMENT	METHOD USED	WATER CEMENT RATIO	AMOUNT OF MUD USED
1944	1000	100	Hand mixing	1:1	1000
1944	1000	100	Hand mixing	1:1	1000

SHOOTING RECORD

[illegible]

TOOLS USED

	feet to	Rotary tools were used from	feet to	feet, and from	feet to
	feet to	Rotary tools were used from	feet to	feet, and from	feet to

DATE

10 The production for the first 24 hours was _____ parcels of fluid of which _____ was oil, _____ Put to producing _____

It was not in the bed 24 hours	Gravelly, "Be."
conclusion: "No water; and No sediment	

Rock pressure lbs per sq. in. ~~at~~ ~~depth~~ ~~of~~ ~~feet~~ ~~from~~ ~~surface~~ ~~to~~ ~~base~~ ~~of~~ ~~rock~~ ~~is~~ ~~as~~ ~~follows~~ :

EMPLOYEES

[illegible]

FORMATION RECORD

FORM	NO.	TOTAL SHEET	FORMATION
1	100	100	100
2	100	100	100
3	100	100	100

1981, CE and 1981 Island
1981, CE and 1981 Island
1981, CE and 1981 Island
1981, CE and 1981 Island
1981, CE and 1981 Island

FORMATION RECORD—Continued

4-9024-0000